

## HOD Series

### Industrial Pressure Transmitter

*Up to 5000 Bar pressure range*

*High strength, rugged stainless steel design*

*Accuracy : 0.5% BFSL @ RT*

#### **Nominal Pressure**

*from 0 ... 5000 bar*

#### **Output signals**

*2-wire: 4 ... 20 mA*

*3-wire: 0 ... 5 V / 0 ... 10 V others on request*

#### **Special characteristics**

- *excellent long-term stability, also with high dynamic pressure loads*
- *un affected on pressure peaks*
- *high overpressure ability*



CE

 **Made in Germany**

The HOD Series is a high quality all stainless steel pressure transmitter, intended for use in the measurement of gases and liquids compatible with stainless steel. The HOD Series is suitable for automotive, industrial hydraulics, refrigeration, off-road, construction and agricultural applications. With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the HOD Series assures trouble free operation at temperatures up to °125C. The HOD Series piezo resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing. The HOD Series high strength stainless steel construction contains no silicone oil and no internal O- rings. Measurements are available in gauge and absolute pressure, with ranges up to 5,000 bar and are backed by a one-year warranty.

### Application



- *Undrground Boring*
- *Water Jet Cutting Machine*
- *High Pressure Water Jets*



- *Earth Moving Equipment*

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Technical Data

Input Pressure Range				
Nominal Pressure Gauge (bar)		2000	4000	5000
Overpressure (bar)		3000	5000	6000
Burst Pressure (bar)		4000	8000	10000

Output Signal / Supply	
Standard	4-20mA / Vs : 10-32VDC
Optional: 3 wire	0-10V - 0-5V / Vs : 12-32VDC

Performance	
Accuracy	Standard 0.5% BFSL
Non-linearity	% of the range $\leq 0.15$
Repeatability	% of the range $\leq 0.10$
Stability / Year	% of the range $\leq 0.10$
Response Time	10-90% t(ms) <sup>1</sup>
Pressure Cycle	> 10 Million

Environment	
Temperature [°C]:	Measuring medium -40...125 Ambience -40...105 Storage -40...125 Compensated range -20...85
Temperature coefficient within the compensated range:	Mean TC offset % of the range $\leq 0,15$ / 10K Mean TC range % of the range $\leq 0,15$ / 10K
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G Peak, 20 to 2000 Hz
Sealing	IP 66, Optional IP69K

Electronics	
Output Impedance	< 100 $\Omega$
Current Consumption	< 10 mA
Reverse Voltage Protection	Yes

Mechanics	
Housing	304 stainless steel
Wetted parts	304 stainless steel
Pressure Port	See Select Table

Miscellaneous	
Weight	Approx. 140g
Mounting Force	Max 25 Nm.
Calibration	Output is Calibrated at Zero & Full Scale

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## Ordering Information

**HOT**

**H**

**0004**

**F**

**G**

**C**

**K**

### Model Name

HOT Series (Normal Pressure Transmitters)  
HOX Series (Explosion Proof Pressure Transmitters)  
HOF Series (Flush Diaphragm Pressure Transmitters)  
HOM Series (Milli Bar Pressure Transmitters)  
HOD Series (High Pressure , Pressure Transmitters)

### Output

H : 2 Wire 4 ~ 20 MA  
HC : 2 Wire 4 ~ 20 MA Compound  
J : 3 Wire 0 ~ 10 V  
JC : 3 Wire 0 ~ 10 V Compound  
F : 3 Wire 0 ~ 5 V

### Pressure Range

HOT Series : 0 ~ 600 Mbar , -1 ~ 1000 Bar  
HOX Series : 0 ~ 2000 Bar  
HOF Series : 0 ~ 200 Bar  
HOM Series : 0 ~ 500 Mbar  
HOD Series : 0 ~ 5000 Bar

### Type of Pressure Measurement

K : Gauge  
A : Absolute

### Connection Type

C : DIN EN 803 - 175301 Connector  
M : M12 - 4Pin Female Connector

### Pressure Port

L : NPT 1/4"  
W: G 1/2" (Flush Diaphragm)  
G: G 1/4" (Normal Type)  
M: M18x1.5" (High Pressure)  
N: G 1" (Flush Diaphragm)

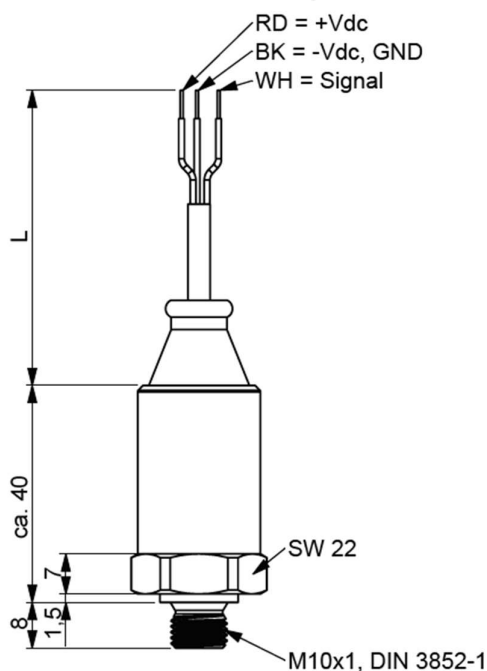
### Pressure Unit

F : BAR

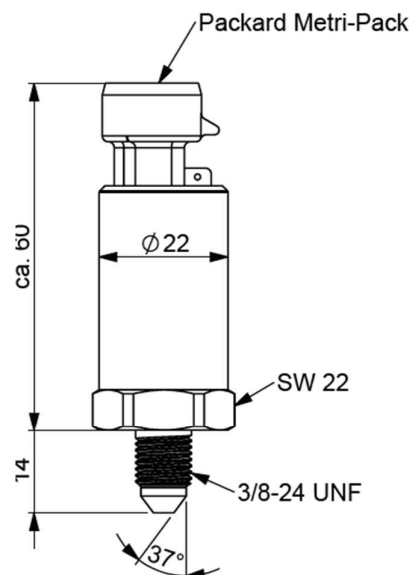
## Dimensions

### Gauge Pressure Dimension

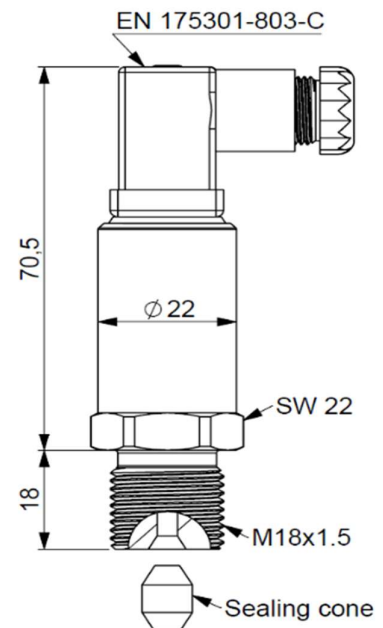
#### Cable assembly



#### Packard Metripac connector



#### DIN EN 175301-803 connector







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## Wiring

Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
 <b>DIN EN 175301-8 03-A and C</b>	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I <sup>2</sup> C	N / A	N / A	N / A	-
 <b>Round connector M12x1 A</b>	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	N / A	- Supply	Output +
	4 .. 20 mA	+ Supply	N / A	Current Output -	N / A
	I <sup>2</sup> C	1   V +	2   V -	3   SCL	4   SDA
 <b>Packard Metripac</b>	<b>Output</b>	<b>PIN A</b>	<b>PIN B</b>	<b>PIN C</b>	-
	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
	4 .. 20 mA	Current Output -	+ Supply	N / A	-
 <b>Cable assembly</b>	<b>Output</b>	<b>Red</b>	<b>Black</b>	<b>White</b>	<b>Green</b>
	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I <sup>2</sup> C	V +	V -	SCL	SDA

## Industries

Oil & Gas  
Maritime & Shipping  
Mining & Refining  
Chemical  
Energy